IN THE CLAIMS:

A complete listing of the Examiner's claim amendments is set forth below:

1-28. (Canceled)

(Currently Amended) An electronic commerce system, comprising:

a global content directory server coupled with one or more seller databases over a network, the global content directory server providing a plurality of buyer computers access to

the one or more seller databases, the global content directory server comprising:

a storage medium stored therein a schema translation tool comprising:

a storage medium stored therein a mapping module configured to:

receive source schema data and target schema data, the source

schema data and the target schema data each comprising a taxonomy comprising a hierarchy of

classes into which products are categorized, wherein the target schema data comprises a different

taxonomy then the taxonomy of the source schema data, at least the source schema data further

comprising a product ontology associated with one or more of the classes, each product ontology

comprising one or more product attributes, at least the source schema data further comprising one or more pointers identifying one or more seller databases and associated with at least one

source class, the one or more seller databases including product data associated with one or more

products categorized in the source class;

generate a graphical representation of the taxonomies of the source

schema data and the target schema data, the graphical representation allowing at least one of the

plurality of buyer computers to graphically associate classes of the source schema data with

classes of the target schema data;

communicate the graphical representation to at least one of the

plurality of buyer computers; and

associate one or more source classes of the source schema data

with one or more target classes of the target schema data; and

a storage medium stored therein an ontology generation module configured to generate a

product ontology for each of the target classes, wherein at least one of the target classes is a

parent class and the product ontology for each target class is based on the product ontologies of the associated source classes by determining an intersection of the product attributes included in

the associated source classes by determining an intersection of the product attributes included in the product ontologies of the target classes.

the product offologies of the target classes.

30. (Previously Presented) The system of Claim 29, wherein the mapping module is

further configured to:

receive input from at least one of the plurality of buyer computers indicating one or more

source classes to be associated with one or more target classes; and

associate the source classes with the target classes in response to the input from a user

associated with at least one of the plurality of buyer computers.

31. (Canceled)

32. (Previously Presented) The system of Claim 29, wherein the source classes are

leaf classes of the source schema data.

33. (Previously Presented) The system of Claim 29, wherein the ontology generation

module is further configured to generate a product ontology for a target class by determining the

intersection of the product attributes included in the product ontologies of the associated source

classes.

34. (Canceled)

35. (Previously Presented) The system of Claim 29, wherein:

at least the source schema data further comprises a seller ontology associated with one or more of the classes, each seller ontology comprising one or more attributes associated with one or more sellers of a product; and

the ontology generation module is further configured to generate a seller ontology for each of the target classes based on the seller ontologies of the associated source classes.

36. (Currently Amended) The system of Claim 29, wherein:

one or more pointers identifying the one or more seller databases are associated with at least one source class, the one or more seller databases including product data associated with one or more products categorized in the source class; and

the mapping module is further configured to associate the one or more pointers of the source class with one or more target classes associated with the source class.

 (Currently Amended) A computer-implemented method of translating schema data, comprising:

receiving, by a server computer, source schema data and target schema data, the source schema data and the target schema data each comprising a taxonomy comprising a hierarchy of classes into which products may be categorized, wherein the target schema data comprises a different taxonomy then the taxonomy of the source schema data, at least the source schema data further comprising a product ontology associated with one or more of the classes, each product ontology comprising one or more product attributes, at least the source schema data further comprising one or more pointers identifying one or more seller databases and associated with at least one source class, the one or more seller databases including product data associated with one or more products categorized in the source class:

generating, by the computer, a graphical representation of the taxonomies of the source schema data and the target schema data, the graphical representation allowing at least one of the plurality of buyer computers to graphically associate classes of the source schema data with classes of the target schema data:

communicating, by the computer, the graphical representation to at least one of the plurality of buyer computers;

associating, by the server computer, one or more source classes of the source schema data with one or more target classes of the target schema data; and

generating, by the server computer, a product ontology for each of the target classes wherein at least one of the target classes is a parent class and the product ontology for each target class is based on the product ontologies of the associated source classes by determining an intersection of the product attributes included in the product ontologies of the target classes.

38. (Previously Presented) The method of Claim 37, further comprising:

receiving input from at least one of a plurality of buyer computers indicating one or more source classes to be associated with one or more target classes; and

associating the source classes with the target classes in response to the input from at least one of the plurality of buyer computers.

(Canceled)

- (Previously Presented) The method of Claim 37, wherein the source classes are leaf classes of the source schema data.
- 41. (Previously Presented) The method of Claim 37, further comprising generating a product ontology for a target class by determining the intersection of the product attributes included in the product ontologies of the associated source classes.

42. (Canceled)

43. (Previously Presented) The method of Claim 37, wherein:

at least the source schema data further comprises a seller ontology associated with one or more of the classes, each seller ontology comprising one or more attributes associated with one or more sellers of a product; and

the method further comprises generating a seller ontology for each of the target classes based on the seller ontologies of the associated source classes.

44. (Currently Amended) The method of Claim 37, wherein:

one or more pointers identifying the one or more seller databases are associated with at least one source class, the one or more seller databases including product data associated with one or more products categorized in the source class; and

the method further comprises associating the pointers of the source class with one or more target classes associated with the source class.

45. (Currently Amended) A non-transitory computer-readable medium embodied with software for translating between schemas, the software when executed using one or more computers is configured to:

receive source schema data and target schema data, the source schema data and the target schemas each comprising a taxonomy comprising a hierarchy of classes into which products may be categorized, wherein the target schema data comprises a different taxonomy then the taxonomy of the source schema data, at least the source schema data further comprising a product ontology associated with one or more of the classes, each product ontology comprising one or more product attributes, at least the source schema data further comprising one or more pointers identifying one or more seller databases and associated with at least one source class, the one or more seller databases including product data associated with one or more products categorized in the source class:

generate a graphical representation of the taxonomies of the source schema data and the target schema data, the graphical representation allowing at least one of the plurality of buyer computers to graphically associate classes of the source schema data with classes of the target schema data:

communicate the graphical representation to at least one of the plurality of buyer computers;

associate one or more source classes of the source schema data with one or more target classes of the target schema data; and

generate a product ontology for each of the target classes wherein at least one of the target classes is a parent class and the product ontology for each target class is based on the product ontologies of the associated source classes by determining an intersection of the product attributes included in the product ontologies of the target classes.

46. (Previously Presented) The computer-readable medium of Claim 45, wherein the software is further configured to:

receive input from at least one of a plurality of buyer computers indicating one or more source classes to be associated with one or more target classes; and

associate the source classes with the target classes in response to the input from at least one of the plurality of buyer computers.

47. (Canceled)

- 48. (Previously Presented) The computer-readable medium of Claim 45, wherein the source classes are leaf classes of the source schema data
- 49. (Previously Presented) The computer-readable medium of Claim 45, wherein the software is further configured to generate a product ontology for a target class by determining the intersection of the product attributes included in the product ontologies of the associated source classes.

(Canceled)

51. (Previously Presented) The computer-readable medium of Claim 45, wherein:

at least the source schema data further comprises a seller ontology associated with one or more of the classes, each seller ontology comprising one or more attributes associated with one or more sellers of a product; and

the software is further configured to generate a seller ontology for each of the target classes based on the seller ontologies of the associated source classes.

(Currently Amended) The computer-readable medium of Claim 45, wherein:

one or more pointers identifying one or more seller databases are associated with at least one source class, the seller databases including product data associated with one or more products categorized in the source class; and

the software is further configured to associate the pointers of the source class with one or more target classes associated with the source class.

(Canceled)

54. (Currently Amended) A electronic commerce system, comprising:

a global content directory server coupled with one or more seller databases over a network, the global content directory server providing a plurality of buyer computers access to the one or more seller databases, the global content directory server comprising:

a storage medium stored therein a schema translation tool comprising:

a storage medium stored therein a mapping module configured to:

receive source schema data and target schema data, the source schema data and the target schema data each comprising a taxonomy comprising a hierarchy of classes into which products may be categorized, wherein the target schema data comprises a different

taxonomy then the taxonomy of the source schema data, at least the source schema data further

comprising a product ontology associated with one or more of the classes, each product ontology comprising one or more product attributes, at least the source schema data further comprising

one or more pointers identifying one or more seller databases and associated with one or more at

least one source class[[es]], the one or more seller databases including product data associated

with one or more products categorized in the source class[[es]];

generate a graphical representation of the taxonomies of the source

schema data and target schema data, the graphical representation allowing at least one of a plurality of buyer computers to graphically associate the classes of the source schema data with

classes of the target schema data;

communicate the graphical representation to at least one of the plurality of

buyer computers[[:]] and receive input from at least one of the plurality of buyer computers indicating one or more source classes of the source schema data to be associated with one or

more target classes of the target schema data;

associate one or more source classes with one or more target classes in

response to the input from at least one of the plurality of buyer computers; and

associate the pointers of the source classes with one or more target classes

associated with the source class; and

a storage medium stored therein an ontology generation module configured to

generate a product ontology for each of the target classes based on the intersection of the product

attributes included in the product ontologies of the associated source classes.

55. (Currently Amended) A method for translating between schemas, comprising:

receiving, by a server computer, source schema data and target schema data, the source

schema data and the target schema data each comprising a taxonomy comprising a hierarchy of classes into which products may be categorized, at least the source schema data further

comprising a product ontology associated with one or more of the classes, each product ontology

comprising one or more product attributes, at least the source schema data further comprising

one or more pointers identifying one or more seller databases and associated with one or more $\underline{a}\underline{t}$

least one source class[[es]], the one or more seller databases including product data associated

with one or more products categorized in the source class[[es]];

generating, by the server computer, a graphical representation of the taxonomies of the

source schema data and the target schema data, the graphical representation allowing at least one of a plurality of buyer computers to graphically associate the classes of the source schema data

with classes of the target schema data;

communicating, by the server computer, the graphical representation to at least one of the

 $plurality\ of\ buyer\ computers \hbox{\tt [[;]]}\ \underline{and}\ receiving,\ by\ the\ \underline{server\ computer},\ input\ from\ at\ least\ one\ of$

the plurality of buyer computers indicating one or more source classes of the source schema data to be associated with one or more target classes of the target schema data;

associating, by the server computer, one or more source classes with one or more target

classes in response to the input from at least one of the plurality of buyer computers;

associating, by the server computer, the pointers of the source classes with one or more

target classes associated with the source class; and

generating, by the server_computer, a product ontology for each of the target classes

based on the intersection of the product attributes included in the product ontologies of the

associated source classes.

56. (Currently Amended) A non-transitory computer-readable medium embodied

with software for translating between schemas, the software when executed using one or more

computers is configured to:

receive source schema data and target schema data, the source schema data and the target

schema data each comprising a taxonomy comprising a hierarchy of classes into which products

may be categorized, at least the source schema data further comprising a product ontology associated with one or more of the classes, each product ontology comprising one or more

associated with one or more of the classes, each product ontology comprising one or more product attributes, at least the source schema data further comprising one or more pointers

identifying one or more seller databases and associated with one or more at least one source

class[[es]], the one or more seller databases including product data associated with one or more

products categorized in the source class[[es]];

generate a graphical representation of the taxonomies of the source schema data and the

target schema data, the graphical representation allowing at least one of a plurality of buyer

computers to graphically associate the classes of the source schema data with classes of the

target schema data;

communicate the graphical representation to at least one of the plurality of buyer

computers[[;]] and receive input from at least one of the plurality of buyer computers indicating one or more source classes of the source schema data to be associated with one or more target

classes of the target schema data;

associate one or more source classes with one or more target classes in response to the

input from at least one of the plurality of buyer computers;

associate the pointers of the source classes with one or more target classes associated

with the source class; and

generate a product ontology for each of the target classes based on the intersection of the

product attributes included in the product ontologies of the associated source classes.

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